

(19) World Intellectual Property
Organization
International Bureau



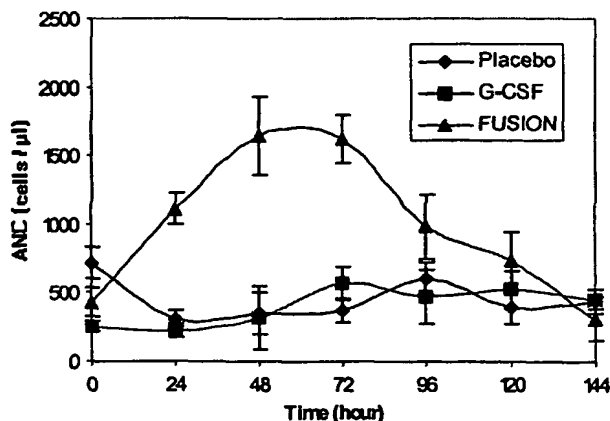
(43) International Publication Date
21 April 2005 (21.04.2005)

PCT

(10) International Publication Number
WO 2005/034877 A2

- (51) International Patent Classification⁷: **A61K**
- (21) International Application Number:
PCT/US2004/033337
- (22) International Filing Date: 8 October 2004 (08.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/510,652 10 October 2003 (10.10.2003) US
60/577,150 4 June 2004 (04.06.2004) US
- (71) Applicant (for all designated States except US): **UNIVERSITY OF SOUTHERN CALIFORNIA** [US/US]; 3716 South Hope Street, Suite 313, Los Angeles, CA 90007-4344 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **SHEN, Wei-Chiang** [US/US]; 2030 Robin Road, San Marino, CA 91108 (US). **BAI, Yun** [CN/US]; 511 North Electric Avenue, Apt. G, Alhambra, CA 91801 (US). **ANN, David** [US/US]; 536 Walnut Avenue, Arcadia, CA 91007 (US). **WIDERA, Adam** [US/US]; 6960 Parkcrest Street, Long Beach, CA 90808 (US).
- (74) Agents: **BERSON, Olga et al.**; Hogan & Hartson L.L.P., Biltmore Tower, 500 South Grand Avenue, Suite 1900, Los Angeles, CA 90071 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: G-CSF TRANSFERRIN FUSION PROTEINS



(57) Abstract: A polypeptide comprising a G-CSF domain operably linked to a Tf domain, wherein the ability of the polypeptide to be transported into a cell expressing a TfR gene or the ability of the polypeptide to be transported across a cell expressing a TfR gene via transcytosis is higher than that of the G-CSF domain alone.

WO 2005/034877 A2